# INTEGRATED AMPLIFIER 3



#### Instructions for use

Thank you for purchasing the Musical Fidelity M3i integrated amplifier.

The M3i uses our tried and tested ultra low distortion power amplifier circuitry, which has enough current reserve to drive even the most demanding speakers with ease. A very low noise and distortion, high-quality preamplifier completes the integrated amplifier giving a perfect sound from a compact looking full size unit.

The M3i will aesthetically match with present and future M3 series products. Such a combination will yield one of the best high-fidelity systems available at any price.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

If there are any questions about the audio system, please consult the dealer who is there to help and advise.



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## SAFETY INFORMATION

## **IMPORTANT!** (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, it is necessary to remove the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children.

## It must not be plugged into a mains outlet.

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellow ......Earth
Blue......Neutral
Brown .....Live

## **WARNING – This appliance MUST be earthed**

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in the plug, proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol:
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- If connecting to a BS1363 plug, a 13 amp fuse must be used.

## **WARNING:**

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.



## **GENERAL ADVICE**

## Installation, Precautions & User Information

This new M3i is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

- · Heed all warnings shown on the back of the product.
- Only connect the M3i to a mains outlet having the same voltage as marked at the back of the unit.
- Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.
- Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.
- Do not use near water, or place water-filled containers on the M3i, for example, a flower vase or potted plants. If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use. Entry of liquid into the M3i is dangerous, and may cause electric shock or fire hazard.
- Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.
- Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent. 
  \* Note: Unauthorised opening of the equipment will invalidate any warranty claim.
- Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents they may harm the surface finish.

The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of the audio system during electrical storms, remove the mains plugs.

If after-sales service is required, to help the dealer identify the M3i please quote the serial number located on the rear panel of the unit.



## ITEM DISPOSAL INFORMATION

DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact local government office or retailer for available collection facilities.



DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Rohs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.

DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclarse como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otras basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio govenativo locale od il rivenditore del prodotto.

FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

<u>HÄVITTÄMINEN</u>

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.

**AFSKAFNING** 

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.

ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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ΠΑΡΑΚΑΛΟΥΜΕ ΝΑ ΕΠΙΚΟΙΝΩΝΗΣΕΤΕ ΜΕ ΤΗΝ ΤΟΠΙΚΗ ΥΠΗΡΕΣΙΑ ΑΝΑΚΥΚΛΩΣΗΣ Η ΜΕ ΤΟ ΚΑΤΑΣΤΗΜΑ ΑΓΟΡΑΣ ΓΙΑ ΠΕΡΙΣΣΟΤΕΡΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ.



#### Introduction

Congratulations on the purchase of the new M3i integrated amplifier. Great attention has been paid to internal layout, isolating each circuit section to prevent possible interaction.

The unit features a finely tuned and tweaked preamplifier, for smooth sound coupled with low noise and virtually no distortion.

The power amplifier consists of two top quality power amplifiers for the absolute best in separation and imaging. Generously rated, they are enough to drive even the most demanding loudspeakers with ease. Low distortion and very quiet they will deliver all music types exactly as the artist originally intended.

The resultant performance achieved by this unit is among the best in the world. It has excellent signal to noise ratio, low distortion, wide bandwidth and dynamic range, with extraordinary resolution and fine detail.

## Cleaning

Before cleaning the unit, switch off power at the mains switch and remove the mains plug from the wall socket.

Clean the cabinet and remote control unit using a moist cloth. Using solvents, white spirit or thinners is not advised, as they could damage the surface finish.

#### Installation

Position the M3i on a stable, horizontal surface where there is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

### Important note:

In normal operation, the unit dissipates a small quantity of power at all times, and it is important that it is adequately ventilated. The top and bottom are perforated to allow the smooth flow of heat through the unit. It is therefore not recommended that the unit is enclosed in a cabinet or placed where the ventilation holes are impeded as this could result in excessive heat build-up.

The M3i must be protected from humidity – if the unit is moved from a cold place to a warm room, leave the unit for an hour or so to allow sufficient time for the moisture to evaporate.

#### **Power Connections**

The M3i is supplied with a standard IEC mains cable which plugs into the IEC socket at the back of the unit (see page 7)

#### **Audio Connections**

**RCA Inputs:** Connect all RCA single-ended sources to relevant analogue inputs (see page 7 for more information). Use good quality fully connected (signal and ground) coaxial phono cables for all RCA signal connections.

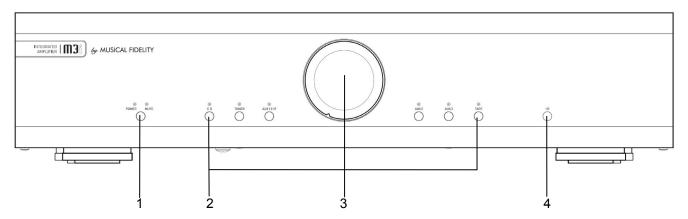
**Outputs:** Connect loudspeakers to the terminals on the back panel marked as **LEFT** and **RIGHT SPEAKER** outputs

The **TAPE** output allows loop through of analogue signals for example, to pass on to recorder or monitor. It is also the ideal output to connect our headphone amps into.

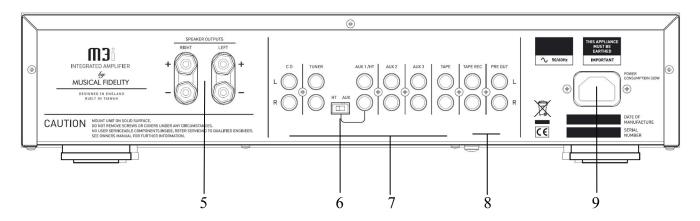
The **PRE-OUT** output allows analogue signals controlled by the volume, to pass on to a second amplifier. This is useful for bi-amping.



## **FACILITIES & CONNECTIONS**



- 1 **ON/OFF** Button
- 2 CD, TUNER, AUX1/HT, AUX2, AUX3, TAPE input selector buttons
- 3 **VOLUME** control
- 4 IR RECEIVER lens



- 5 LOUDSPEAKER OUTPUTS right and left
- 6 HT/AUX selector for AUX1/HT input
- 7 CD, TUNER, AUX1/HT, AUX2, AUX3, TAPE input RCA sockets
- 8 PRE, TAPE output RCA sockets
- 9 IEC MAINS INPUT



## REMOTE CONTROL HANDSET

The universal remote control shown below enables functions from this and related units to be operated from a convenient distance.

Equivalent buttons on the remote control have the same functions as those on the front panel of the unit. Other functions are only available by remote control.

As the handset uses an invisible infra-red light beam, the front edge must be pointed directly towards the receiver window at the front of the player, without visual obstruction between them.

If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries – two are required, size AAA, LR03 or SUM-4.

Please dispose of used batteries in accordance to local regulations.

#### **Amplifier section**

CD - selects CD input (on amplifier)

TUNER - selects TUNER input

AUX1/HT - selects AUX/HT input

AUX2 - selects AUX2 input

AUX3 - selects AUX3 input

TAPE - selects TAPE input

#### CD player section

TIME-displays track time/time remaining

**0-9 Buttons** – Used to select track numbers

CHECK – check pre-programmed tracks

**PROGRAM** – programs selection and order of tracks

**INTRO** – plays first 10 seconds of each track

**REPEAT** – repeats whole disk or selected tracks

**SEARCH** – fast forward/backward through track

STOP – Stop playing/Eject CD



**MUTE** - mutes speaker outputs (until pressed again).

**VOLUME** ▲ - increases volume

VOLUME ▼ - reduces volume

**DISPLAY** – dims display

**CLEAR** – clears selected pre programmed track

A/B sets repeat start/end to repeat section of track

**SHUFFLE** – plays back tracks in random order

TRACK – next/previous track

**PAUSE/PLAY** – stop/start CD playback



## **Starting**

Once all connections are made, switch on the unit, using the **POWER** button front of the unit. The **MUTE** LED will light. Speaker outputs are muted for about 6 seconds, so no sound will be heard from the speakers. Once the 6 seconds is up the **MUTE** LED goes out, indicating unit is settled, and ready for use.

#### Volume

The volume should be adjusted for normal listening levels. This is done by turning the volume up/down knob on the front panel.

Adjusting the volume can also be achieved bying the volume up/down buttons on the remote control handset.(see page 8)

### Mute (Remote Control only)

The sound from the speakers may be muted by use of the **MUTE** button on the remote. Press once, and **MUTE** LED will light indicating muted state. No sound will be heard from the speakers.

To return to listening; simply press the MUTE button again so MUTE LED is no longer lit.

#### CD

To use the **CD** input, connect CD player outputs to the **CD** input RCA sockets (see page 7). Select **CD** input by pressing the **CD** button so **CD** LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).

#### **TUNER**

To use the tuner input, connect tuner outputs to the **TUNER** input RCA sockets (see page 7). Select **TUNER** input by pressing the **TUNER** button so **TUNER** LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).

#### **AUX1/HT**

To use the AUX1/HT input as a standard input, move the AUX/HT switch on the back panel to the AUX position. Connect source outputs to the AUX1 input RCA sockets (see page 7). Select AUX1/HT input by pressing the AUX1/HT button so AUX1/HT LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).

To use the **AUX1/HT** input as a Home Theatre input, move the **AUX/HT** switch to the **HT** position. This input is now unaffected by the volume control, allowing volume control on an external Home Theatre processor to be used directly. Connect Home theatre or other source outputs to the **AUX1/HT** input RCA sockets (see page 7). Select **AUX1/HT** input by pressing the **AUX1/HT** button so **AUX1/HT** LED lights.

<u>IMPORTANT:</u> Take great care when using the input in HT mode. Ensure that the volume control is turned right down on the **HT processor** when first setting up. The HT mode is designed for sources which require <u>their own</u> volume control to be used. Connecting sources in HT mode with no volume control could result in damage to hearing and/or speakers due to uncontrolled loud sounds.

#### AUX2

To use the **AUX2** input, connect source outputs to the **AUX2** input RCA sockets (see page 7). Select **AUX2** input by pressing the **AUX2** button so **AUX2** LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).

## AUX3

To use the **AUX3** input, connect source outputs to the **AUX3** input RCA sockets (see page 7). Select **AUX3** input by pressing the **AUX3** button so **AUX3** LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).



## **TAPE**

To use the **TAPE** input, connect external source to the **TAPE** input (see page 7). Select **TAPE** input by pressing the **TAPE** button so **TAPE** LED lights.

Pressing the corresponding button on the remote handset has the same effect (see page 8).





Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power when <b>POWER</b> button is pressed.	Mains power plug is not fully inserted into rear socket.	Plug in securely.
No sound Sound cut	Mute function is still active. Wrong connections between input sources and the unit Speakers not connected, or incorrectly wired Loose connection	Press the <b>MUTE</b> button on the remote control to cancel. Check audio input lead connections. Check speaker cables. Check speaker and input connections.
	Output overload or short circuit	Switch unit off. Check speaker connections for shorting strands or wires. When all has been double-checked reduce volume and switch unit back on.  N.B. Take great care when bi-wiring or bi-amping that speaker bass and treble linking straps are removed; see speaker manual for more information.
Sound is not precise, lacking in bass and stereo image.	Speakers are connected out of phase, i.e., connections to one speaker (+ and –) are reversed.	Ensure speakers are connected with same polarity at amplifier <b>and</b> speaker ends.
Hum.	Audio connector plug not fully pushed in Cable Fault Unsuitable cable (e.g. cable grounds not connected)	Insert plug securely.  Check cable is connected at both ends.  N.B. Some esoteric cables have internal wiring intentionally disconnected/modified. For best results on all inputs analogue AND digital, please use good quality screened coax; signal and screens both separately connected at both ends.
No audio output, or too low level output.	Incorrect or missing connections	Check connections and make sure they are secure.
Remote control does not work.	Amplifier's <b>POWER</b> switch is set to off.  One or more batteries fitted the wrong way round.  Batteries are flat.  Remote control is not pointed directly towards the front panel of the amplifier.  Interference from another source.	Set switch to on. Insert batteries correctly. Change batteries for a new set. Ensure there is no obstruction between the remote control and amplifier front. Lighting such as fluorescent, incandescent, or even sunlight contains large amounts of infra red radiation. Ensure such sources are not shining directly on the infra red window as this could swamp the signal from the remote control. Also check the system and any other nearby remotes for stuck buttons.
Remote control range has greatly reduced	Batteries are running out	Change batteries for a new set.

If none of these actions affect a cure, please contact the dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the M3i, as this will invalidate the guarantee.



## **SPECIFICATIONS**

## Output

Power 76 Watts per channel into 8 Ohms (19dBW) Voltage 25 Volts RMS, 20Hz to 20 kHz; onset of clipping

70 Volts peak to peak

Current 25 Amps peak to peak

Damping factor 36

Output devices 1 pair per channel

Line input

THD+N < 0.014 % typical, 20Hz to 20 kHz

Signal / noise ratio > 96dB 'A'-weighted

Input impedance 40 k Ohms

Frequency response +0, -0.1dB, 10Hz to 20 kHz

Connections

Line level inputs 6 pairs line level RCA connectors

Line level outputs 1 pair line level RCA connectors, constant level TAPE outputs

1 pair line level RCA connectors, preamp outputs for e.g. biamping

Speaker outputs 2 pairs 4mm banana plug/binding posts

**Power requirement** 

Mains voltages 115/230VAC 50/60Hz (factory pre-set)

100VAC 50/60Hz (alternative)

Consumption 320 Watts maximum

Weight

Unit only, unboxed 9.2 kg ( $20\frac{1}{4}$  lbs) In shipping carton 13 kg ( $30\frac{2}{3}$  lbs)

**Dimensions** 

Wide 440 mm (17 $\frac{1}{3}$ ") High, including feet 100 mm (4") Deep (front to back) including terminals 400 mm (15 $\frac{1}{3}$ 4")

#### Standard accessories

IEC type mains lead (10-Amp type)
M3i remote control

Batteries, LR03 or AAA, manganese alkaline type - 2 off

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.





# **MANUAL HISTORY**

RELEASE	DATE	CHANGES	
M3i manual issue 1	8 <sup>th</sup> December 2009	1 <sup>st</sup> issue	